

<p>95-011642/02 D22 E33 H04 J01 (J04) SUMTOMO CHEM CO LTD 93.04.12 93JP-084441 (94.10.25) C01F7/02, B01J 20/08, C01F 7/44, B01J 21/04 Activated alumina powder - prepd. by instantly calcining aluminium hydroxide in hot air stream. C95-005075</p>	<p>D(9-A) E(34-C1) H(4-E, 4-F2E) J(1-D1, 1-E3C, 4-E3, 4-E4) N(1-C2)</p>
<p>Activated alumina powder which possesses an average secondary particle diameter of 0.5-10 microns and a pore volume of pores with radii of up to 100 Angstrom of at least 0.2 cm³/g, whose rehydrated product produced by rehydrating in the presence of water at 80 deg. C for 24 hours consists of pseudo-boehmite, and which has rehydrating and hydraulic properties at up to 100 deg. C is new.</p> <p>Also claimed is the preparation of the above-claimed activated alumina powder, in which aluminium hydroxide with an average secondary particle dia. of 0.5-10 microns obtained by the Bayer's process is calcined instantly in a hot air stream at 500-1200 deg. C and a linear velocity of 5-50m/s for a contacting time of 0.1-10 seconds to an extent of ignition loss of 3-10 wt. %.</p> <p><u>USE/ADVANTAGE</u></p>	<p>The activated alumina powder obtained can be used as a raw material of a desiccating agent, adsorbent, catalyst support, FCC catalyst, and support of a deodorising catalyst. Since the powder obtained has a large pore volume and good hydraulic property, it exhibits high adsorptivity and catalytic activity and gives a product with high mechanical strength. (5pp0037DwgNo.0/0)</p>

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